

## Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

## Cerro Gordo County, Iowa

Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
6: OKOBOJI-----	---	> 80	---	---	---	---	High-----	High-----	Low.
27B: TERRIL-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Low.
29: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
NICOLLET-----	---	> 80	---	---	---	---	High-----	High-----	Low.
41B: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
41C: SPARTA-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
55: NICOLLET-----	---	> 80	---	---	---	---	High-----	High-----	Low.
62C3: STORDEN-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
62D3: STORDEN-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
62E3: STORDEN-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
73C: SALIDA-----	---	> 80	---	---	---	---	Low-----	Low-----	Low.
73E: SALIDA-----	---	> 80	---	---	---	---	Low-----	Low-----	Low.
83: KENYON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
83B: KENYON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
83C2: KENYON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
84: CLYDE-----	---	> 80	---	---	---	---	High-----	High-----	Low.
95: HARPS-----	---	> 80	---	---	---	---	High-----	High-----	Low.
107: WEBSTER-----	---	> 80	---	---	---	---	High-----	High-----	Low.
135: COLAND-----	---	> 80	---	---	---	---	High-----	High-----	Low.
138: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
138B: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
138C: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
138C2: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
138D2: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
151: MARSHAN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
152: MARSHAN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
153: SHANDEP-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
169B: CLARION-----	---	> 80	---	---	---	---	Moderate-----	Low-----	Low.
171: BASSETT-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
171B: BASSETT-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
171C2: BASSETT-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
171D2: BASSETT-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
171F: BASSETT-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
173: HOOPESTON-----	---	> 80	---	---	---	---	High-----	Low-----	Moderate.
174: BOLAN-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
174B: BOLAN-----	---	> 80	---	---	---	---	Moderate-----	Moderate-----	Moderate.
175: DICKINSON-----	---	> 80	---	---	---	---	Moderate-----	Low-----	Moderate.
175B: DICKINSON-----	---	> 80	---	---	---	---	Moderate-----	Low-----	Moderate.
177: SAUDE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
177B: SAUDE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
177C: SAUDE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
177C2: SAUDE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
178: WAUKEE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
178B: WAUKEE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
184: KLINGER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
188: KENSETT-----	Bedrock (lithic)	24- 40	---	---	---	---	High-----	High-----	Low.
198B: FLOYD-----	---	> 80	---	---	---	---	High-----	High-----	Low.
201B: COLAND-----	---	> 80	---	---	---	---	High-----	High-----	Low.
TERRIL-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Low.
213: ROCKTON-----	Bedrock (lithic)	20- 40	---	---	---	---	Moderate----	Low-----	Low.
213B: ROCKTON-----	Bedrock (lithic)	20- 40	---	---	---	---	Moderate----	Low-----	Low.
214: ROCKTON-----	Bedrock (lithic)	20- 40	---	---	---	---	Moderate----	Low-----	Low.

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Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
214B: ROCKTON-----	Bedrock (lithic)	20- 40	---	---	---	---	Moderate----	Low-----	Low.
214C: ROCKTON-----	Bedrock (lithic)	20- 40	---	---	---	---	Moderate----	Low-----	Low.
216B: RIPON-----	Bedrock (lithic)	20- 40	---	---	---	---	High-----	Moderate----	Moderate.
217: RIPON-----	Bedrock (lithic)	20- 40	---	---	---	---	High-----	Moderate----	Moderate.
217B: RIPON-----	Bedrock (lithic)	20- 40	---	---	---	---	High-----	Moderate----	Moderate.
221: PALMS-----	---	> 80	---	---	4-15	25-32	High-----	High-----	Moderate.
221B: PALMS-----	---	> 80	---	---	4-15	25-32	High-----	High-----	Moderate.
225: LAWLER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
226: LAWLER-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
236B: LESTER-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
236C: LESTER-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
236C2: LESTER-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
236D2: LESTER-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.

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Map symbol and soil name	Restrictive layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
236E2: LESTER-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
236F: LESTER-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
274: ROLFE-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
284: FLAGLER-----	---	> 80	---	---	---	---	Low-----	Moderate----	Low.
284B: FLAGLER-----	---	> 80	---	---	---	---	Low-----	Moderate----	Low.
284C: FLAGLER-----	---	> 80	---	---	---	---	Low-----	Moderate----	Low.
325: LE SUEUR-----	---	> 80	---	---	---	---	High-----	High-----	Low.
329: WEBSTER-----	---	> 80	---	---	---	---	High-----	High-----	Low.
NICOLLET-----	---	> 80	---	---	---	---	High-----	High-----	Low.
335: HARCOT-----	---	> 80	---	---	---	---	High-----	High-----	Low.
354: AQUOLLS-----	---	---	---	---	---	---	None-----	---	---
HISTOSOLS-----	---	---	---	---	---	---	---	---	---
377: DINSDALE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
377B: DINSDALE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
382: MAXFIELD-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
391B: CLYDE-----	---	> 80	---	---	---	---	High-----	High-----	Low.
FLOYD-----	---	> 80	---	---	---	---	High-----	High-----	Low.
398: TRIPOLI-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
399: READLYN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
407B: SCHLEY-----	---	> 80	---	---	---	---	High-----	High-----	High.
412C: SOGN-----	Bedrock (lithic)	4- 20	---	---	---	---	Moderate----	Low-----	Low.
412E: SOGN-----	Bedrock (lithic)	4- 20	---	---	---	---	Moderate----	Low-----	Low.
444: JACWIN-----	Bedrock (paralithic)	30- 50	---	---	---	---	High-----	High-----	Low.
457: DU PAGE-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
471: ORAN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
507: CANISTEO-----	---	> 80	---	---	---	---	High-----	High-----	Low.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
536: HANLON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Low.
551: CALAMINE-----	Bedrock (paralithic)	40- 60	---	---	---	---	Moderate----	High-----	Moderate.
558: TALCOT-----	---	> 80	---	---	---	---	High-----	High-----	Low.
559: TALCOT-----	---	> 80	---	---	---	---	High-----	High-----	Low.
583: MINNETONKA-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
611: ROSSFIELD VARIANT--	---	> 80	---	---	---	---	High-----	High-----	Low.
612B: MOTTLAND-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
612C2: MOTTLAND-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
612E2: MOTTLAND-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
612G2: MOTTLAND-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
613: ROSSFIELD-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
613B: ROSSFIELD-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.



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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
613C: ROSSFIELD-----	---	> 80	---	---	---	---	Moderate----	Low-----	Moderate.
614B: JACWIN VARIANT----	---	> 80	---	---	---	---	High-----	High-----	Low.
614C3: JACWIN VARIANT----	---	> 80	---	---	---	---	High-----	High-----	Low.
621: HOUGHTON-----	---	> 80	---	---	6-18	55-60	High-----	High-----	Moderate.
638C2: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
STORDEN-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
638D2: CLARION-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
STORDEN-----	---	> 80	---	---	---	---	Moderate----	Low-----	Low.
651: FAXON-----	Bedrock (lithic)	20- 40	---	---	---	---	High-----	High-----	Low.
695: TILFER-----	Bedrock (lithic)	20- 40	---	---	---	---	High-----	High-----	Low.
706: CERLIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
706B: CERLIN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
725: HAYFIELD-----	---	> 80	---	---	---	---	High-----	Low-----	Moderate.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
733: CALCO-----	---	> 80	---	---	---	---	High-----	High-----	Low.
755: NICOLLET-----	---	> 80	---	---	---	---	High-----	High-----	Low.
777: WAPSIE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
777B: WAPSIE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
777C2: WAPSIE-----	---	> 80	---	---	---	---	Low-----	Low-----	Moderate.
782: DONNAN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
782B: DONNAN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
782C2: DONNAN-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
836B: KILKENNY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
836C2: KILKENNY-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Moderate.
855: SHOREWOOD-----	---	> 80	---	---	---	---	High-----	High-----	Moderate.
936: COLAND-----	---	> 80	---	---	---	---	High-----	High-----	Low.
HANLON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Low.

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	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		In	In		In	In			
956: HARPS-----	---	> 80	---	---	---	---	High-----	High-----	Low.
OKOBOJI-----	---	> 80	---	---	---	---	High-----	High-----	Low.
976: RADDLE-----	---	> 80	---	---	---	---	High-----	Moderate----	Moderate.
1936: COLAND-----	---	> 80	---	---	---	---	High-----	High-----	Low.
HANLON-----	---	> 80	---	---	---	---	Moderate----	Moderate----	Low.
5010: PITS, SAND AND GRAVEL-----	---	---	---	---	---	---	---	---	---
5030: PITS, LIMESTONE QUARRY-----	Bedrock (lithic)	0- 4	---	---	---	---	---	---	---
5040: ORTHENTS-----	---	---	---	---	---	---	None-----	---	---
5060: PITS, CLAY-----	---	---	---	---	---	---	---	---	---
W: WATER-----	---	---	---	---	---	---	---	---	---